

July 30, 2024

Mark Pauli Wisconsin Dept of Natural Res - Madison 107 Sutliff Ave Rhinelander, WI 54501

Project: 2024 0.5 Expanded Zone (Starks/Stella) Project Number: Gary Paulson - 3132 Maple Road

Work Order: CC07875 Received: 07/17/24

Enclosed are the results of analyses for samples received by our laboratory on 7/17/2024. If you have any questions concerning this report, please feel free to contact a client service representative at clientservices@nlslab.com.

Sincerely,

Steven M. Hefter For Client Services

Northern Lake Service, Inc.

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Wisconsin Dept of Natural Res - Madison Project: 2024 0.5 Expanded Zone (Starks/Stella)

107 Sutliff Ave Project Number: Gary Paulson - 3132 Maple Road **Reported: Work Order:**

Rhinelander, WI 54501 Project Manager: Mark Pauli 7/30/24 9:29 CC07875

Sample Summary

Descriptions of all qualifiers listed throughout this report can be found on the Qualifiers and Definitions Page.

Lab ID	Sample	Matrix	Qualifiers	Date Sampled	Date Received
CC07875-01	Kitchen Sink	DW		7/16/24 21:50	7/17/24 9:29
CC07875-02	Kitchen Sink Field Blank	DW		7/16/24 21:50	7/17/24 9:29

Wisconsin Dept of Natural Res - Madison Project: 2024 0.5 Expanded Zone (Starks/Stella)

107 Sutliff Ave Project Number: Gary Paulson - 3132 Maple Road **Reported: Work Order:**

Rhinelander, WI 54501 Project Manager: Mark Pauli 7/30/24 9:29 CC07875

Sample Results

Sample: Kitchen Sink											
CC07875-01 (DW) Sampled: 0	7/16/24 21:50										
Analyte	Result	Qualifier	LOD	LOQ	MCL	Units	Date Prepared	Date Analyzed	Analyst	Method	Lab Cert Code
Semi-Volatiles											
11-chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	ND		0.32	1.1		ng/L	7/18/24 5:54	7/18/24 22:33	JPW	EPA 537.1, Rev 2.0	2
9-chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	ND		0.49	1.6		ng/L	7/18/24 5:54	7/18/24 22:33	JPW	EPA 537.1, Rev 2.0	2
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	ND		0.43	1.4		ng/L	7/18/24 5:54	7/18/24 22:33	JPW	EPA 537.1, Rev 2.0	2
hexafluoropropylene oxide dimer acid (HFPO DA)	ND		0.97	3.2		ng/L	7/18/24 5:54	7/18/24 22:33	JPW	EPA 537.1, Rev 2.0	2
N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		1.8	6.1		ng/L	7/18/24 5:54	7/18/24 22:33	JPW	EPA 537.1, Rev 2.0	2
n-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		2.0	6.7		ng/L	7/18/24 5:54	7/18/24 22:33	JPW	EPA 537.1, Rev 2.0	2
perfluorobutanesulfonic acid (PFBS)	ND		0.76	2.6		ng/L	7/18/24 5:54	7/18/24 22:33	JPW	EPA 537.1, Rev 2.0	2
perfluorodecanoic acid (PFDA)	ND		0.56	1.9		ng/L	7/18/24 5:54	7/18/24 22:33	JPW	EPA 537.1, Rev 2.0	2
perfluorododecanoic acid (PFDoA)	ND		0.65	2.1		ng/L	7/18/24 5:54	7/18/24 22:33	JPW	EPA 537.1, Rev 2.0	2
perfluoroheptanoic acid (PFHpA)	1.4	J	0.56	1.9		ng/L	7/18/24 5:54	7/18/24 22:33	JPW	EPA 537.1, Rev 2.0	2
perfluorohexanoic acid (PFHxA)	1.4	J	0.59	1.9		ng/L	7/18/24 5:54	7/18/24 22:33	JPW	EPA 537.1, Rev 2.0	2
perfluorohexanesulfonic acid (PFHxS)	ND		0.66	2.2		ng/L	7/18/24 5:54	7/18/24 22:33	JPW	EPA 537.1, Rev 2.0	2
perfluorononanoic acid (PFNA)	ND		0.54	1.8		ng/L	7/18/24 5:54	7/18/24 22:33	JPW	EPA 537.1, Rev 2.0	2
perfluorooctanoic acid (PFOA)	2.3		0.49	1.6		ng/L	7/18/24 5:54	7/18/24 22:33	JPW	EPA 537.1, Rev 2.0	2
perfluorooctanesulfonic acid (PFOS)	ND		0.50	1.7		ng/L	7/18/24 5:54	7/18/24 22:33	JPW	EPA 537.1, Rev 2.0	2
perfluorotetradecanoic acid (PFTA)	ND		0.56	1.9		ng/L	7/18/24 5:54	7/18/24 22:33	JPW	EPA 537.1, Rev 2.0	2
perfluorotridecanoic acid (PFTrDA)	ND		0.56	1.9		ng/L	7/18/24 5:54	7/18/24 22:33	JPW	EPA 537.1, Rev 2.0	2
perfluoroundecanoic acid (PFUnA)	ND		0.54	1.8		ng/L	7/18/24 5:54	7/18/24 22:33	JPW	EPA 537.1, Rev 2.0	2
Surrogate: (SURR) C13-PFHxA	88%		Limits:	70-130%			7/18/24 5:54	7/18/24 22:33	JPW	EPA 537.1, Rev 2.0	2
Surrogate: (SURR) C13-HFPODA	81%		Limits:	70-130%			7/18/24 5:54	7/18/24 22:33	JPW	EPA 537.1, Rev 2.0	2
Surrogate: (SURR) C13-PFDA	78%			70-130%			7/18/24 5:54	7/18/24 22:33	JPW	EPA 537.1, Rev 2.0	2
Surrogate: (SURR) d5-NEtFOSAA	84%		Limits:	<i>70-130%</i>			7/18/24 5:54	7/18/24 22:33	JPW	EPA 537.1, Rev 2.0	2

Reported:

Work Order:

Wisconsin Dept of Natural Res - Madison Project: 2024 0.5 Expanded Zone (Starks/Stella)

107 Sutliff Ave Project Number: Gary Paulson - 3132 Maple Road

Rhinelander, WI 54501 Project Manager: Mark Pauli 7/30/24 9:29 CC07875

Sample: Kitchen Sink Field Blank

CC07875-02 (DW) Sampled: 07/16/24 21:50

Analyte	Result	Qualifier	LOD	LOQ	MCL	Units	Date Prepared	Date Analyzed	Analyst	Method	Lab Cert Code
Semi-Volatiles											
11-chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	ND		0.31	1.0		ng/L	7/22/24 5:47	7/23/24 16:13	JPW	EPA 537.1, Rev 2.0	2
9-chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	ND		0.48	1.6		ng/L	7/22/24 5:47	7/23/24 16:13	JPW	EPA 537.1, Rev 2.0	2
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	ND		0.42	1.4		ng/L	7/22/24 5:47	7/23/24 16:13	JPW	EPA 537.1, Rev 2.0	2
hexafluoropropylene oxide dimer acid (HFPO DA)	ND		0.95	3.1		ng/L	7/22/24 5:47	7/23/24 16:13	JPW	EPA 537.1, Rev 2.0	2
N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		1.8	5.9		ng/L	7/22/24 5:47	7/23/24 16:13	JPW	EPA 537.1, Rev 2.0	2
n-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		2.0	6.6		ng/L	7/22/24 5:47	7/23/24 16:13	JPW	EPA 537.1, Rev 2.0	2
perfluorobutanesulfonic acid (PFBS)	ND		0.74	2.5		ng/L	7/22/24 5:47	7/23/24 16:13	JPW	EPA 537.1, Rev 2.0	2
perfluorodecanoic acid (PFDA)	ND		0.55	1.9		ng/L	7/22/24 5:47	7/23/24 16:13	JPW	EPA 537.1, Rev 2.0	2
perfluorododecanoic acid (PFDoA)	ND		0.64	2.1		ng/L	7/22/24 5:47	7/23/24 16:13	JPW	EPA 537.1, Rev 2.0	2
perfluoroheptanoic acid (PFHpA)	ND		0.55	1.9		ng/L	7/22/24 5:47	7/23/24 16:13	JPW	EPA 537.1, Rev 2.0	2
perfluorohexanoic acid (PFHxA)	ND		0.57	1.9		ng/L	7/22/24 5:47	7/23/24 16:13	JPW	EPA 537.1, Rev 2.0	2
perfluorohexanesulfonic acid (PFHxS)	ND		0.65	2.2		ng/L	7/22/24 5:47	7/23/24 16:13	JPW	EPA 537.1, Rev 2.0	2
perfluorononanoic acid (PFNA)	ND		0.53	1.8		ng/L	7/22/24 5:47	7/23/24 16:13	JPW	EPA 537.1, Rev 2.0	2
perfluorooctanoic acid (PFOA)	ND		0.48	1.6		ng/L	7/22/24 5:47	7/23/24 16:13	JPW	EPA 537.1, Rev 2.0	2
perfluorooctanesulfonic acid (PFOS)	ND		0.49	1.7		ng/L	7/22/24 5:47	7/23/24 16:13	JPW	EPA 537.1, Rev 2.0	2
perfluorotetradecanoic acid (PFTA)	ND		0.55	1.9		ng/L	7/22/24 5:47	7/23/24 16:13	JPW	EPA 537.1, Rev 2.0	2
perfluorotridecanoic acid (PFTrDA)	ND		0.55	1.9		ng/L	7/22/24 5:47	7/23/24 16:13	JPW	EPA 537.1, Rev 2.0	2
perfluoroundecanoic acid (PFUnA)	ND		0.53	1.8		ng/L	7/22/24 5:47	7/23/24 16:13	JPW	EPA 537.1, Rev 2.0	2
Surrogate: (SURR) C13-PFHxA	86%		Limits:	70-130%			7/22/24 5:47	7/23/24 16:13	JPW	EPA 537.1, Rev 2.0	2
Surrogate: (SURR) C13-HFPODA	90%		Limits:	70-130%			7/22/24 5:47	7/23/24 16:13	JPW	EPA 537.1, Rev 2.0	2
Surrogate: (SURR) C13-PFDA	83%		Limits:	70-130%			7/22/24 5:47	7/23/24 16:13	JPW	EPA 537.1, Rev 2.0	2
Surrogate: (SURR) d5-NEtFOSAA	76%		Limits:	70-130%			7/22/24 5:47	7/23/24 16:13	JPW	EPA 537.1, Rev 2.0	2



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Project Manager: Mark Pauli

7/30/24 9:29

Work Order:

List of Certifications

Code	Description	Number	Expires
2	NLS (Crandon) WDNR Laboratory ID No.	721026460	8/31/24

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Qualifiers and Definitions

Item	Definition
J	Result is between LOD and LOQ and considered to be within a region of less-certain quantitation.
ND	Analyte NOT DETECTED at or above the LOD or MRL.
LOD	Limit of Detection.
LOQ	Limit of Quantitation.
NA	Not Applicable.
Dry	Dry Weight Basis.
Wet	Wet Weight Basis.
% Dry	Equal to: (mg/kg dry) / 10000.
1000 ug/L	Equal to: 1 mg/L.
MCL	Maximum Contaminant Levels for Drinking Water Samples. Shaded results indicate >MCL.
RPD	Relative Percent Difference.
%REC	Percent Recovery.
Source	Sample that was matrix spiked or duplicated.

All LOD/LOQs adjusted to reflect preparation volumes, dilutions, and/or solids content.

Sample Collection Record

Town of Stella-Starks Expanded PFAS (537.1) Sampling Project
Return your sample no later than 2 days after collection to:
Northern Lake Service 400 N Lake Ave Crandon, WI 54520 Please provide the following information: Solution 1
60565
Please provide the following information: 9PAUlson 53@ gmail.com
Name: GARY PAULSON
Address: 3132 Maple Rd
City/State/Zip: Rhinelander, WI \$54501
Phone: <u>630 - 235 - 8039</u>
Sample Collection Date: 7-16-20>4 Sample Collection Time: 9:50 AMAM
Sample Collection Location (ex. Kitchen Sink): Kitchen Sink
Sample Collected By (Signature):
**Per EPA 537.1, each sample set must be accompanied by a field blank. The purpose of the field blank is to allow for the identification of potential contamination during sample collection and handling. Final results will be reported directly to the Wisconsin DNR. WDNR will review, interpret, and inform residents of further action. DO NOT CONTACT NORTHERN LAKE SEVICE DIRECTLY FOR
SAMPLE RESULTS.
CC07875
Received at NLS by (Signature): Method of Delivery: Condition Date/Time: 7/17/3624 0929